Szkolenie: HPE
VMware vSphere: What is New

<table>
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<tr>
<th>FORMA SZKOLENIA</th>
<th>MATERIAŁY SZKOLENIOWE</th>
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<tr>
<td>Stacjonarne</td>
<td>Tradycyjne</td>
<td>3800 PLN NETTO*</td>
<td>3 dni</td>
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<td>Stacjonarne</td>
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<td>4400 PLN NETTO*</td>
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* (+VAT zgodnie z obowiązującą stawką w dniu wystawienia faktury)

LOKALIZACJE

Kraków - ul. Tatarska 5, II piętro, godz. 9:00 - 16:00
Warszawa - ul. Bielska 17, godz. 9:00 - 16:00

Cel szkolenia:

In this hands-on training course, you will explore the new features and enhancements in VMware vCenter Server® 6.7 and VMware ESXi™ 6.7. Real-world use-case deployment scenarios, hands-on lab exercises, and lectures will teach you the skills that you need to effectively implement and configure VMware vSphere® 6.7. This course is recommended for customers who want to deploy vSphere 6.7 into their existing vSphere environment.

Audience

- System architects
- System administrators
- IT managers
- VMware partners
- Individuals responsible for implementing and managing vSphere architectures

Plan szkolenia:

- Course Introduction
  - Introductions and course logistics
  - Course objectives
- Management Enhancements
  - Differentiate the vSphere clients
  - Use vSphere Client to view the vSphere environment
  - Use VMware Host Client to view the vSphere environment
- Describe the vSphere 6.0, 6.5, and 6.7 enhancements to vCenter Server Appliance
- Describe how to back up and restore vCenter Server Appliance
- Explain how to patch vCenter Server Appliance
- Describe the new features of vSphere 6.7
- Summarize the purpose of content libraries in a vSphere environment
- Discuss the vSphere requirements for content libraries
- Create a local content library
- Subscribe to a published content library
- Deploy virtual machines from a content library
- Describe how vCenter Server High Availability works
- Describe how VMware Platform Services Controller™ high availability works
- Configure vCenter Server High Availability

- vCenter Architecture Upgrade and Migration
  - Describe the new architecture features of vCenter Server
  - Choose between a distributed configuration and an embedded configuration, based on your requirements
  - Determine the appropriate upgrade path for a vCenter Server deployment
  - Upgrade a vCenter Server Appliance instance to vCenter Server 6.7
  - Determine the appropriate migration path for a vCenter Server deployment
  - Describe the new migration features of vCenter Server 6.7
  - Migrate Windows vCenter Server 5.5 to vCenter Server Appliance 6.7

- ESXi Upgrade and Enhancements
  - Determine the appropriate upgrade method for an ESXi host
  - Describe the procedure for upgrading an ESXi 5.5, 6.0, or 6.5 host to an ESXi 6.7 host
  - Discuss the enhancements to vSphere 6.5 scalability and performance
  - Discuss the additional features to support hot-plug and SMART solid-state drives
  - Describe the new capabilities of host profiles introduced in vSphere 6.5
  - Describe the vSphere 6.7 Quick Boot feature
  - Describe the VMware vSphere® Update Manager™ EAM integration

- Virtual Machine Enhancements
  - Discuss how virtual hardware 11, 13, and 14 extend virtual machine resource configurations
  - Describe how the VMXNET3 adapter optimizes network traffic
  - Discuss how hot-add memory is distributed across NUMA nodes in vSphere 6.x
  - Describe the benefits of VMware vSphere® Integrated Containers™

- Storage Enhancements
  - Describe vSphere 6.x support for NFS
- Describe the VMFS6 datastore
- Describe the upgrade procedure from VMFS5 to VMFS6
- Describe the VMFS6 enhancements in vSphere 6.7
- Describe the benefits of using virtual volumes
- Describe per-virtual machine, policy-based policy management
- Describe how VMDK data operations are offloaded to storage arrays through VMware vSphere® API for Storage Awareness™
- Describe how VMware vSphere® Virtual Volumes™ is used with Windows Server Failover Clustering
- Describe the VMware vSAN™ enhancements in the following areas:
  - Scalability
  - Performance
  - Availability
  - Space efficiency
  - Operational
  - Usability
  - Describe the interoperability enhancements to VMware vSphere® Storage DRS™ and VMware vSphere® Storage I/O Control
  - Describe the enhancements to vSphere Storage DRS and Storage I/O Control that improve adherence to configured maximums and reservations
- Security Enhancements
  - Discuss the improvements to lockdown settings
  - Describe the addition of smart-card authentication
  - Explain the changes that enhance user accountability
  - Plan for secure boot support for ESXi hosts
  - Describe the security enhancements
  - Deploy enhanced vCenter Server events and alarms and vSphere logging
  - Describe the vSphere 6.7 features for monitoring vCenter Server Appliance
  - Use encryption in your vSphere environment
  - Encrypt virtual machines
  - Explain how to back up encrypted virtual machines
  - Encrypt core dumps
  - Enable encrypted vSphere vMotion migration
  - Describe the virtual TPM feature in vSphere 6.7
  - List the core security modules that are part of VMware Platform Services Controller™
  - List the VMware certificate management components
  - Describe certificate use changes in vSphere 6.0
○ Describe the primary services provided by the VMware Certificate Authority component
○ Describe the primary services provided by the VMware Endpoint Certificate Store component
○ Define VMware CA certificate replacement options
○ Describe ESXi certificate replacement options
○ Discuss certificate-based guest authentication

○ Network Enhancements
○ Use Network I/O Control
○ Upgrade Network I/O Control to version 3
○ Enable network resource management on VMware vSphere® Distributed Switch™
○ Configure bandwidth allocation for system and virtual machine traffic based on shares and reservation
○ Discuss IPv6 support in vSphere 6.0
○ Explain how the gateway per vmknic feature works and how it is configured
○ Explain the new ERSPAN headers supported in vSphere 6.5 and how they are configured
○ Describe the areas where performance improvements were made in vSphere 6.5

○ Availability Enhancements
○ Describe the TCP/IP stack for vSphere vMotion that was introduced in vSphere 6.0
○ Explain the changes that make vSphere vMotion migrations across high-latency networks possible
○ Discuss the requirements for migrating a virtual machine across vCenter Server instances
○ Explain how VMware vSphere® Fault Tolerance in vSphere 6.0 supports virtual machines with multiple virtual CPUs
○ Describe how vSphere Fault Tolerance maintains the secondary virtual machine in a ready state
○ Explain the mechanism by which the primary virtual machine is determined
○ Discuss the improvements made in handling all paths down (APD) and permanent device lost (PDL) conditions
○ Describe the increased scalability of vSphere HA
○ Explain the additional compatibility supported by vSphere HA
○ Explain the enhancement of vSphere HA admission control in vSphere 6.5
○ Describe the improvement of vSphere HA orchestrated restarts

Wymagania:

This course requires completion of one the following courses, or equivalent knowledge and administration experience with VMware ESX®/ ESXi and vCenter Server:
VMware vSphere: Install, Configure, Manage
VMware vSphere: Fast Track
VMware vSphere: What's New
VMware vSphere: Troubleshooting Experience working at the command line is helpful.
The course material presumes that you can perform the following tasks with no assistance or
guidance before enrolling in this course:
- Install and configure ESX or ESXi
- Install vCenter Server
- Create vCenter Server objects, such as data centers and folders
- Create and manage vCenter Server roles and permissions
- Create and modify a standard switch
- Create and modify a distributed switch
- Connect an ESX/ESXi host to NAS, iSCSI, or Fibre Channel storage
- Create a VMware vSphere® VMFS datastore
- Enable VMware vSphere® vMotion® on an ESX/ESXi host
- Use a wizard or a template to create a virtual machine
- Modify a virtual machine’s hardware
- Migrate a virtual machine with vSphere vMotion
- Migrate a virtual machine with VMware vSphere® Storage vMotion®
- Configure and manage a VMware vSphere® Distributed Resource Scheduler™ cluster with
  resource pools
- Configure and manage a VMware vSphere® High Availability cluster

If you cannot complete these tasks, VMware recommends that you instead take the VMware vSphere:
Install, Configure, Manage [V6.7] course.

Poziom trudności

Certyfikaty:

After completing the course, participants receive a certificate of completion of course.

Prowadzący:

Authorized VMware Trainer.